

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number  
**WO 2005/031001 A2**

(51) International Patent Classification<sup>7</sup>: **C12Q 1/68**

(21) International Application Number:  
**PCT/US2004/031617**

(22) International Filing Date:  
23 September 2004 (23.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/669,920 23 September 2003 (23.09.2003) US

(71) Applicant (for all designated States except US): **CHIRON CORPORATION** [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MORRIS, David, W.** [US/US]; 2841 Emerald Bay Drive, Davis, CA 95616 (US). **MALANDRO, Marc, S.** [US/US]; 1064 South Lake Drive, Gibsonia, PA 15044 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- without international search report and to be republished upon receipt of that report
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



A2

1001

WO 2005/031001 A2

(54) Title: NOVEL THERAPEUTIC TARGETS IN CANCER

(57) Abstract: The present invention relates to novel sequences for use in detection, diagnosis and treatment of cancers, especially lymphomas. The invention provides cancer-associated (CA) polynucleotide sequences whose expression is associated with cancer. The present invention provides CA polypeptides associated with cancer that are present on the cell surface and present novel therapeutic targets against cancer. The present invention further provides diagnostic compositions and methods for the detection of cancer. The present invention provides monoclonal and polyclonal antibodies specific for the CA polypeptides. The present invention also provides diagnostic tools and therapeutic compositions and methods for screening, prevention and treatment of cancer.